

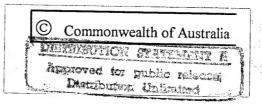
PILLAR REPORT ENVIRONMENTAL QUESTIONNAIRE FOR ARMAMENT STORES

REPORT No: ASP1001.96

(AOC 265.96)

24 July 1996

APPROVED FOR PUBLIC RELEASE



A Pillar Report is a formal statement by the Australian Ordnance Council of its policy or philosophy on a subject. It is published for the guidance of Australian Ordnance Council staff and the information of organisations of individuals who may deal with the Australian Ordnance Council. It is not an order, or a management instruction, and it imposes no constraints on designers of manufacturers.



HEADQUARTERS AUSTRALIAN DEFENCE FORCE
AUSTRALIAN ORDNANCE
COUNCIL

19961009 140



PILLAR REPORT ENVIRONMENTAL QUESTIONNAIRE FOR ARMAMENT STORES

REPORT No: ASP1001.96

(AOC 265.96)

24 July 1996

Approved for public released
Distribution Unlimited

DTIC QUALITY INC.

A Pillar Report is a formal statement by the Australian Ordnance Council of its policy or philosophy on a subject. It is published for the guidance of Australian Ordnance Council staff and the information of organisations of individuals who may deal with the Australian Ordnance Council. It is not an order, or a management instruction, and it imposes no constraints on designers of manufacturers.



HEADQUARTERS AUSTRALIAN DEFENCE FORCE

AUSTRALIAN ORDNANCE COUNCIL

THE LETTED STATES NATIONAL TECHNICAL INTUBHATION SETTINGS IS AUTHORISED TO REPRODUCE AND SELL THIS REPORT

The information given in this document is not to be communicated either directly or indirectly to the Press or to any person not authorised to receive it.

This work is copyright. Apart from any fair dealing for the purpose of study, research, criticism or review, as permitted under the Copyright Act, no part may be reproduced by any process without written permission. Copyright is the responsibility of the Director Publishing and Marketing, AGPS. Inquiries should be directed to the Manager, AGPS Press, Australian Government Publishing Service, GPO Box 84, Canberra, ACT 2601.

(Note. All correspondence relating to the content of this report should be addressed to:
The Secretary, Australian Ordnance Council,
CP2-3-21, Campbell Park, Canberra, ACT 2600, Australia.)

This report was endorsed at a meeting of the Australian Ordnance Council on 24 July 1996.

Report No: ASP1001.96

PRESIDENT

GROUP CAPTAIN W.M^CD. MAYNE, ARMIT, MIEAust, CPEng

MEMBERS

CAPTAIN S.A. LOCKE, BSc, MIEE, RN

CAPTAIN P.G. PHILLIPS, BTech, Grad Dip Bus Admin, FIQA, RAN

MR R. PARKER, BSc, MSc

SECRETARY

MR W.K. RUSH, ARMIT, MIEAust, CPEng

ATTENDING

Technical Staff

SQUADRON LEADER G. WILCOCK, BE(Hons), Msc
MAJOR D. MORGAN, BSc(Hons)

LIEUTENANT COMMANDER J.J. WILLIAMS, Dip EOT

MR I. KUMMEROW, BSc(Hons), ME, MRACI, MIEAust, CChem, CPEng, AIMM

Report No: ASP1001.96

(INTENTIONALLY BLANK)

Report No: ASP1001.96

SUMMARY

- 1. This report publishes a revised AOC Environmental Questionnaire.
- 2. AOC Proceeding 194.91 is cancelled.

Report No: ASP1001.96

(INTENTIONALLY BLANK)

Report No: ASP1001.96 AOC 265.96 dated 24 July 1996

File: AOC 95-11853

Task No: 270

Tasking Authority: PAOC

AOC Report Number: ASP1001.96 (265.96)

ENVIRONMENTAL QUESTIONNAIRE FOR ARMAMENT STORES

Previous Reports: AOC Proceeding 194.91

INTRODUCTION

- 1. The AOC provides assessments to the three Services and industry on the safety and suitability for service of weapon systems and explosives. These assessments are based on the results of appropriate trials which include tests to simulate the predicted service environment that the armament store must withstand, from manufacture to target or disposal. This predicted service environment generates a Life Cycle Environmental Profile (LCEP), which in turn is used to generate an Environmental Test Plan (ETP). The store must withstand this simulated service environment without unacceptable degradation, in either safety or performance.
- 2. The AOC published an Environmental Questionnaire (EQ) as AOC Proceeding 194.91, copies of which were completed by the store's Service managers to obtain the LCEP. Experience has shown that improvements could be made to the EQ in the areas of format and explanation of terms. The Explosives Environmental and Service Life Advisory Committee (EESLAC) was tasked to draft a revised EQ which incorporated improvements in these areas.

AIM

3. The aim of this Report is to publish a revised AOC Environmental Questionnaire.

DISCUSSION

4. The accurate definition of the likely service environment to which a store or weapon system might be exposed during its manufacture to target or disposal sequence is critical in formulating an ETP. If an environment less severe than that which the store might experience is stipulated, latent defects and failure modes may go undetected. Alternatively, if a more severe environment is defined, then a store or system may be unnecessarily modified or rejected. The rationale behind the use of the EQ is discussed in depth at Reference A.

Report No: ASP1001.96

- 5. The AOC should be involved early in the procurement cycle to advise on definition of the environment, particularly when overseas organisations are contenders for the supply of an item. Ideally this should take place well before competitive tendering action so that the necessary ETP may be included in the Invitation to Tender. Some or all of the information needed to demonstrate the safety and suitability of the store for the specified Australian environment may then be provided by potential suppliers, possibly leading to an overall reduction in project costs.
- 6. The questionnaire should be completed and certified by project staff, with assistance from the AOC task Technical Staff Officer, as soon as possible after task placement. The revised EQ is at Enclosure 1. If required, the questionnaire can be provided on disk.

CONCLUSION

7. The Environmental Questionnaire for armament stores to be used by project staff and the AOC is published. AOC Proceeding 194.91 is cancelled.

Approved for Publication:

W.M°D.MAYNE

Group Captain

President, Australian Ordnance Council

Reference:

A. Pisani, J., 'Guidance for Preparation of a Life Cycle Environmental Profile and Environmental Test Plan for Qualification of Explosive Ordnance', DSTO-GD-0032 of June 1995

Enclosure:

1. AOC Environmental Questionnaire

Report No: ASP1001.96

Distribution:

VCDF (Data Sheet Only)

ACDEV

ACMAT-N

ACMAT-A

ACMAT-AF

Engineer in Charge, Environmental Test Facility, ATEA

EOLMSQN (CO)

DWGP-A

DARMENG-N

ATEA (Laboratories and Services Division)

Manager Document Exchange Centre (8 Copies)

Defence Central Library (Technical Reports Centre)

Librarian DSTO Salisbury

Librarian AMRL Melbourne

AMRL (Salisbury, Attn: Mr P.MacDowell)

HQLOGCMD-A (SATO Surveillance)

HQLOGCMD-A (SO2 Ammo)

Manager Armament Surveillance (RAN)

Secretary UK Ordnance Board

Counsellor Defence Science, Australian Defence Staff, Washington

Chairman US DDESB

Chairman USN WSESRB

Director Ammunition Engineering Services (CF)

Head New Zealand Defence Liaison

Technical Project Officer MWDDEA A-79-AS-1254

Technical Project Officer MWDDEA AF-78-AS-7005

NIMIC

ADI Ltd (General Manager, Ammunition Product Development Centre)

Report No: ASP1001.96



AUSTRALIAN ORDNANCE COUNCIL ENVIRONMENTAL QUESTIONNAIRE

STORE NOMENCLATURE
AOC TASK NO
CERTIFICATION BY SERVICE AUTHORITIES
The information in this questionnaire represents the expected service environment and is consistent with the approved storage and operational requirements and design specifications for this store.
Signature
Name
Appointment Date

Design Approval Authority or Project Manager / Director

This questionnaire is designed to establish the Life Cycle Environmental Profile (LCEP) that a weapon system or item of explosive ordnance is expected to experience during its life from manufacture to target or disposal. This profile is used by the AOC to determine the necessary trials to simulate those environments. The purpose of this testing is to assess the probable response of the store and its container to natural and induced environmental conditions representative of those likely to be experienced in service. This questionnaire should be completed with the assistance of AOC staff.

AUSTRALIAN ORDNANCE COUNCIL - ENVIRONMENTAL QUESTIONNAIRE

Background Information

	where known
Store nomenclature or description:	(To include build standard or modification state, where known
Ξ.	

- 1.2 What is the UN Classification of the store and/or its components, if known?
- 1.3 Is a UN Classification required? Y / N
 Complete an application for UN classification (TGI 39). Note that additional testing may be required to confirm the classification code.
- 1.4 1.4.1 In what country is the store designed?
- 1.4.2 In what country is the store manufactured and by whom?
- 1.5 What other countries use the store?

 Provide any environmental or safety data from overseas sources.
- 1.6 Which of the Services are likely to use the store?
- 1.7 Are prototype development drawings available? Y / N
- 1.7.1 Drawing Numbers and Titles
- 1.8 Are 'sealed' drawings available? Y / N
- 1.8.1 Drawing Numbers and Titles

1.9 Does the store have detachable components? Y/N

1.9.1 At what stage of the life cycle will they be assembled to constitute a complete store?

Note: If the individual components will at any stage be stored or deployed in different environmental conditions than the complete store annotate when this is the case throughout the remainder of the questionnaire.

.10 Is there a practice or blank version of the store? Y/N

Note: If the practice or blank version will at any stage be stored or deployed in different environmental conditions than the operational version annotate when this is the case throughout the remainder of the questionnaire.

1.11 What is the next higher assembly of the item?

eg. in the case of a fuze, what projectile or weapon is it fitted to; in the case of rounds or missiles, what type of gun or launcher is used.

1.12 Are range safety templates available, or are they required?

If the store is for training purposes what is the required safe operating distance? 1.13

1.14 Which land based Service firing ranges, if any, will be used for:

1.14.1 the operational version of the store?

1.14.2 the practice version of the store?

Is there, or might there be, software used to control any safety critical function? Y/N 1.15

Packaging Information

Primary Packaging

Primary packaging is the smallest package unit, exclusive of integral casings, used to contain and transport the store or stores.

- Is the store and/or components to be packaged at any time during its life cycle? Y/N 2.1
- 2.1.1 Describe the packaging. (Include UN package code)
- 2.1.2 Drawing Numbers?
- 2.2 Is the primary packaging used to contain:
- 2.2.1 the entire store? Y/N
- 2.2.2 individual sections or components of the store? Y/N
- 2.3 What is the orientation of the store within the packaging?

Secondary Packaging

Secondary packaging is any packaging unit holding more than one primary package and in which the primary packaged store spends a significant proportion of its life.

- 2.4 Is the store to be packaged in larger units ie. secondary packaging? Y/N
- 2.4.1 Describe the packaging.
- 2.4.2 Drawing numbers?
- 2.5 Describe the through-life storage configuration.

Service Life and Environment

۷.
in?
ð
ate
G
ē
0
ō
O.
30
ora
šŧ
~
- ==
ခွ
~
¥
2
. =
=
8
ï
ခိုင
-63
Ä
ž
نه
÷
_
-5
<u>ت</u>
.=
ਫ਼ਿ
놽
Ħ
A
¥
4)
de
S
=
0
as
5
2
hat
Vha
\mathbb{X}
_
~

Note that the default environment for testing will be the ADF's likely operating environment, as described in higher Defence policy such as the Defence White Paper. AOC staff can provide advice on the extremes of this environment if necessary.

,	٠.
١	့်
•	2
	K
	Se
	ö
۲	_
•	š
Ī	Ξ
•	Ħ
	S
	ĭ
	ದ
(#
	š
	Ξ
	ᆵ
	5
	_
	=
	G
٠	Ħ
	ಕ
	2
	3
	es.
	stor
	c s
	≝
	- -
•	
-	₩.
	_
٠	<u></u>
	_
	9
•	5
_	∄
_	7
-	Ĕ
	S
•	=
4471	23
1 1	≥
(1

Service life (service life is a combination of storage life and operational life)? 3.2.1

3.2.2 Operational or training conditions (ie operational life) ?

If the store is an aircraft installed store, what is its required installed life? 3.2.3

3.3 Are stores or explosive components which become over-age to be:

3.3.1 expended in training? Y/N

3.3.2 demilitarised? Y/N

3.3.2.1 describe how:

3.3.3 disposed of? Y/N

3.3.3.1 describe how:

3.4 What are the store's 'render safe' requirements?

			ly)			mit;						
		4	s that app	ú	nit store;	epot via						
			all choice	destroyed, discarded, demilitarised etc; (if different from 3.3 describe how)	refurned to neid store, repacking (if unpacked) and returned to unit store,	repacked in secondary or primary packing (if unpacked) and returned to depot Via unit;						
			y: (circle	n 3.3 des	I) and ret	I) and reti						
			nt are the	erent fro	unpacked	unpacke		9		1		
	Z	z	nvironme	tc; (if dif	acking (if	acking (if	dcpot,	ed from th		ent?		
bility for:	self destruction? Y/N	self neutralising? Y/N	rational e	litarised 6	rimary pa	rimary pa	כו וס חוכ	e re-issuc		deployme		
re a capal	f destruct	f neutrali	ld or opei	ed, demi	tore; dary or p	dary or p	nuca and	e store b	e?	for field	6	
Does it have a capability for:	sell	sell	s in a fiel	l, discard	returned to netd store; repacked in secondary	in secon	other:	s could th	depot store?	unit store for field deployment?	field store?	
Ω	3.4.1.1	3.4.1.2	For unused stores in a field or operational environment are they: (circle all choices that apply)	destroye	returned repacked	repacked	repacked other:	How many times could the store be re-issued from the	Ъ	a	· Gard	
3.4.1			For unu		ට බ	()	e)	How m	3.6.1	3.6.2	3.6.3	
			3.5					3.6				

Logistics Transport

Road Transport

Road transport includes transport between the manufacturer, depot and unit but does not include transport in the field by vehicles such as armoured personnel carriers, tanks or amphibious craft.

4.1 Complete this table for each vehicle type used to transport the store by road.

Roads	istance (km)			
Unsealed	Package State Distance (km) Package State Distance (km)			
Roads	Distance (km)			
Sealed I	Package State			
Transport	Phase			
Vehicle				

I = Manufacturer to Depot, II = Depot to Unit. Transport Phase: Package State:

A = Primary, B = Secondary, C = Unpacked

Air Transport

circumstances where the store is installed in an aircraft or carried internally or externally by an aircraft Air transport includes transport between the manufacturer, depot and unit but does not include in an operational or training mission.

Complete this table for each aircraft type used to transport the store by air. 4.2

Aircraft	Transport	Maximum	Package	Max. Altitude	Max. Altitude
Туре	Phase	Phase Duration	State	Unpressurised	Pressurised

I = Manufacturer to Depot, II = Depot to Unit. A = Primary, B = Secondary, C = Unpacked Transport Phase:

Package State:

Sea Transport

circumstances where the item is stored on a combat, training or supply vessel, troop carrier or landing craft. Sea Transport includes transport between manufacturer, depot and unit but does not include

Complete this table for each ship type used to transport the store by sea. 4.3

If the store is transported as deck cargo state the additional protection provided, if any (eg ISO container).

Additional Protection			
Stowed or Deck Cargo			
Package State			
Maximum Duration			
Transport Maximum Phase Duration			
Ship Type			

I = Manufacturer to Depot, II = Depot to Unit. Transport Phase: Package State:

A = Primary, B = Secondary, C = Unpacked

Rail Transport

Complete this table if the store is transported by rail. 호. 호.

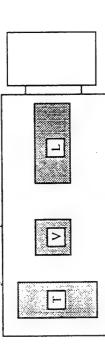
Transport Phase:

I = Manufacturer to Depot, II = Depot to Unit. A = Primary, B = Secondary, C = Unpacked

Package State:

Other Methods of Transportation

- Will the store be transported by any other means? 4.5
- Method? 4.5.1
- Distance? 4.5.2
- Packaged state? 4.5.3
- Geographic areas? 4.5.4
- Transport phase? 4.5.5
- On the plan view of a generic land sea or air vehicle below, tick all of the orientations in which the store may be transported:



V = Vertical L = LongitudinalT = Transverse

Field Transport in Surface Vehicles

tanks or amphibious craft (amphibious craft should also be included in the storage at sea section), and includes Field transport includes transport in the field by vehicles such as armoured personnel carriers, use as installed equipment.

If the store could be transported in a mobile/towed launcher (eg field or air defence artillery) or on trolleys or other ground support equipment (eg transfer of bombs or missiles to aircraft), it should be included in this section.

5.1 Complete this table for all situations where the store is transported over land during field or operational use.

		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Purpose or Ad Hoc Racks: Give Details			
Position: Front, Rear Sides. Internal/External			
Terrain / Package Stowage: Horizontal, Position: Front, Rear Surface State Vertical, other. Sides. Internal/Externa			
Package State			
Terrain / Surface			
Distance (km)			
Wheeled/ Distance Tracked (km)			
Vehicle Tyne			

Package State: A = Primary, B = Secondary, C = Unpacked

Aircraft Use and/or Carriage

internally or externally by an aircraft in operational or training missions, including helicopter This section covers circumstances where the store is installed in an aircraft, carried slung loads. This section does not cover air transportation to depots or unit stores. Complete this table for all situations where the store experiences an airborne environment other than transport. 6.1

Max dB Acoustic Noise			
Package State			
Environmental Package Protection: State In-Flight			
Subject to Arrested Landing: Y/N			
Mounting Method Subject to Environme or Racks used Arrested Protection Landing: Y/N In-Flight			
Positions in/on Aircraft			
Internal or External			
Aircraft Total In Type Flying or Time (h) Ey			-
Aircraft Type			

Package State: A = Primary, B = Secondary, C = Unpacked

- Provide details of the known or maximum required vibration environment of the store at the aircraft position where it will be located. 6.2
- 6.3 Will the store experience free fall at or after launch? Y / N

6.4 What temperature extremes will the store experience during flight?

Include any known details of aerodynamic heating

6.4.1 Maximum Temperature and duration?

6.4.2 Minimum Temperature and duration?

6.5 Provide details of the operational and training flight profiles including duration, air speed and altitude. Include ferry flights.

Mission Lype:	Altitude	Duration	Mission Type:	Altitude	Duration	Mission Type:	Altitude	Duration	Mission Truss
---------------	----------	----------	---------------	----------	----------	---------------	----------	----------	---------------

Altitude Duration

Storage on Land

Complete this table for all types of storage conditions that the store will encounter on land.

Storage on land includes all types of storage facilities the store could encounter in depot, unit or field conditions. It includes storage at the manufacturer.

and humidity, whilst temperature controlled facilities are subject to normal humidity fluctuations. Air-conditioned facilities are those which have a controlled environment of temperature

normally be constructed of solid brick or a similar material, and would have adequate ventilation. A good quality storehouse is one in which the inside temperature would be expected to remain reasonably constant over a 24h period, but would follow seasonal changes. It would

A thin walled storehouse is one in which the inside temperature would be expected to follow, but not exceed, duily fluctuations. It would normally be of light construction, with adequate ventilation and give complete protection from sun and rain.

Storage Type	Temperature Depot, Unit	Package	Package Geographic Duration in	Duration in
	& Humidity	State	Arcas	Areas (Total)
Air Conditioned: Specify				
Temperature (°C) and Humidity (%)				
Temperature Controlled: Specify				
Temperature (^o C)				
Good Quality Storehouse				
Thin Walled Storehouse				
Unventilated Temporary Storage:				
No Climatic Protection				

A = Primary, B = Secondary, C = Unpacked

Package State:

Storage and Use on Ships

Storage on Ships includes circumstances where the item is stored on a training or supply vessel, troop carrier or lunding craft or combat vessel. It also includes support craft, tenders, lighters, patrol boats and submarines but does not include transport between manufacturer, depot and unit.

Complete this table for all storage conditions that the store may encounter at sea.

Fitted storage facilities include, for example, ready-use lockers and loaded launchers.

If the store is stowed in more than one type of ship or magazine, provide the maximum and minimum temperatures that the store is likely to experience. For position on ship, detail below or above the waterline, and forward, aft or midship.

	Air Conditioned Magazine	Forced Draft Ventilation	Fitted Storage Facility	Deck Cargo
Types of Ship				
Temperature (0 C) & Humidity (%) (est)				
Package State				
Position on Ship				
Use of Purpose Designed Racks?: Describe Racks				
Duration in Ship Max at one time				

Package State: A = Primary, B = Secondary, C = Unpacked

- Provide details of the known or maximum required vibration environment of the store as positioned in the vessel.
- 8.3 Could the store be subject to underwater shock? Y / N
- 8.3.1 Where is the most likely position of the store during the shock (eg magazine, ready use locker etc)? (Include store orientation)
- 8.3.2 Are the stowages on resilient mounts?
- 8.3.3 What is the most likely package state of the store during the shock?

Other Operational Environments

- 9.1 Will the store be subjected to high forces of acceleration (eg ground, sea or air-launched missiles or captive aircraft flight)? Y/N
- 1.1 Provide details of known or required forces.
- 9.2 Is the store required to operate under water or buried below ground (eg land and sea mines and torpedoes)? Y/N
- 9.2.1 What is the maximum operating or launch depth required?
- 9.2.2 What is the maximum duration required under water or below ground?
- 9.2.3 What geographic areas are involved?
- 9.3 Will the store be air-dropped?
- 9.3.1 From what height?
- 9.3.2 What is the package state of the store?
- 9.3.3 Describe any additional protection used.

a ship from a lighter, onto or off a jackstay, or onto an aircraft manually or using a machine (eg MJI), If the store will be lifted at any time during transport and handling (eg by a crane, into list for each case:

PackagedAdditional ProtectionMaximum HeightAction to be taken withStateProvidedLifted (m)Dropped Stores				
Maximum Height Lifted (m)				
Additional Protection Provided				
Packaged State				
Lifting Device or Method				

Package State: A = Pri

A = Primary, B = Secondary, C = Unpacked

- Will the store experience vibration or shock as a result of firing a gun (aircraft, ship or artillery)? 9.5
- 9.5.1 What type of gun?
- environment (eg submarine launched weapon, air launched weapon)? Y/N Will the store experience temperature shock due to sudden changes in the 9.6
- 9.6.1 Provide details of the temperature change and duration of the change.

Environment Exposure

10.1 Provide details of exposed environments that the store may experience. Include details of any protection provided.

-	Solar	Dust/	Salt	Rain	Fuel /Oil	Other	Immersion
	ion	Sand/Mud	Spray		(Specify	Contaminants in Water	in Water
					Type)	(Specify)	
Duration of							
Exposure							
Package							
State							
Geographic							
Areas							
Protection							
Provided							
Life Cycle							
Phase							

I = Transport, II = Storage, III = Operational Use A = Primary, B = Secondary, C = Unpacked Life Cycle Phase:

Package State:

round of ammunition held in a hot gun chamber or a fire extinguisher cartridge close to power 10.2 Is the store required to survive prolonged exposure to high temperatures such as a plants in aircraft? Y/N

situation? 10.2.1

maximum temperature? 10.2.2

maximum duration? 10,2,3

Abnormal Hazards and Events

- 11.1 Is the store required to be an Insensitive Munition (IM) IAW DI(G) LOG 07-10.
- 11.2 Complete this table for all occasions where the store could be exposed to fire:

The configuration describes the state of the store ie all up round, components etc.

	Liquid Fuel Fire	Other Fire Directly on	Fire in an Adiacent
	•	Store or Packaging	Compartment
Configuration of Store			
Package State			
Materials in Fire ie. Fuel			
Response Required to be Known? Y/N			
Known Fire Hazards of Store (eg smoke, fumes)			
Firefighting / Emergency Time Available			

Package State: A = Pri

A = Primary, B = Secondary, C = Unpacked

- 11.3 Is the store required to survive the following effects of a nuclear environment:
- 11.3.1 Gamma Rays or X Rays? Y/N
- 11.3.2 Electromagnetic Pulse (EMP)? Y/N

11.4 Complete the following table if the store could encounter any of the following impacts or shocks during its life cycle.

The configuration describes the state of the store ie all up round, components etc. Note whether the store is protected by other structures (such as a ship's hull or turret of an AFV). The anticipated hazard is the weapon or event which would cause the effect.

	Bullet Impact	Fragment Impact Shaped Charge		Detonation of an
			Jet	Adjacent Store
Anticipated Hazard				
Store				
Configuration				
Package State				

Package State: A = Pr

A = Primary, B = Secondary, C = Unpacked

11.5 Complete the following table if the store could encounter an electromagnetic environment at any time during its life cycle:

Anticipated Hazard	Liguinig	romagnetic	Induction of
Anticipated Hazard		Environment	I ransient Energy
,			
Store			
Configuration			
Packaged State			

Package State:

A = Primary, B = Secondary, C = Unpacked

Note whether there is any protection from the electromagnetic environment during handling (such as loading) or when loaded (in launchers or on aircraft).

11.5.1 Does the store contain an Electrically Initiated Explosive Device? Y/N

AUSTRALIAN ORDNANCE COUNCIL DOCUMENT DATA SHEET

AR Number AR-009-144 3b. Report Number 20-99-109-6 PILLAR 270 2. Security Classification U U U U S Abstract 270 Security Classification U U U U S Abstract 370 Security Classification U U U U S Abstract 370 Security Classification U U U U S Abstract 370 Security Classification U U U U S Abstract 370 Security Classification U U U U S Abstract 370 Security December 170 Security Date 24 July 1996 7. Number of Pages 32 8. Number of Refs. I 1 Title PILLAR REPORT - ENVIRONMENTAL QUESTIONNAIRE FOR ARMAMENT STORES 8. Author(s) SQNLDR GREG WILCOCK 21. Organization of Defence. Australian Ordinance Council. Department of Defence. Australian Ordinance Council. Department of Defence. Abstract 370 Security: PAOC Dewagending: PAOC Dewagending: PAOC Approval for release: PAOC Dewagending: PAOC Security						_		
2. Privacy Marking/ Cavet AR-009-144 3b. Report Number 26.5 96 ASP1001.96 PILLAR PILLAR (Security Classification U U U U U U U U U U U U U U U U U U U							1. Page Classification	
a. AR Number AR 000-144 AR 000-144 AR 000-144 AR 000-144 ASP1001-96 ASP1001-9							UNCLASSIFIED	
a. AR Number AR. 000-144 AS 100-196 AR. 000-144 AS 100-196 AS 100-							2. Privacy Marking/	
a. AR Number AR-009-144 3h. Report Number 265-99 AR-009-144 Security Classification U U U (Secret) C (Conf) R (Rest) U (Unclass) Document Title Abstract For UNCLASSIFIED documents with a secondary distribution LIMITATION, use (L) in document box. Document Date 24 July 1996 7. Number of Pages 32 8. Number of Refs. 1 Title PILLAR REPORT - ENVIRONMENTAL QUESTIONNAIRE FOR ARMAMENT STORES D. Author(s) SQNLDR GREG WILCOCK 2a. Corporate Author and Address Australian Ordinance Council. Department of Defence. CP3-3-21, Campbell Park Offices, Canberra, ACT, 2600 AUSTRALIA 2b. Task Sponsor PRESIDENT AUSTRALIAN ORDNANCE COUNCIL. 4. Secondary Release Statement of this Document Public Access 5a. Deliberate Announcement No Limitation Ref. by Author, Doc No. and date only 5. Keywords PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES 8. Abstracet This report publishes a revised AOC Environmental Questionnaire.							Caveat	
AR-009-144 205 96 ASP100196 PILLAR 270 Security Classification U U U U U U U U U U U U U U U U U U							(or document)	
AR-009-144 265-96 ASP1001-96 PILLAR 270 Security Classification U U U U U U U U U U U U U U U U U U	a. AR Number	3b. Report Num	her	3c. Type of Re	port		4. Task Number	
(Secret) C (Conf) R (Rest) U (Uaclass) Document Title Abstract For UNCLASSIFIED documents with a secondary distribution LIMITATION, use (L) in document box. Document Date 24 July 1996 7. Number of Pages 32 8. Number of Refs. 1	AR-009-144						270	
For UNCLASSIFIED documents with a secondary distribution LIMITATION, use (L) in document box. Document Date 24 July 1996 7. Number of Pages 32 8. Number of Refs. 1	Security Classification	U	U	U				
Title PILLAR REPORT - ENVIRONMENTAL QUESTIONNAIRE FOR ARMAMENT STORES 1. Author(s) SQNLDR GREG WILCOCK 1. Downgrading/Delimiting Instructions 1. Officer/Position responsible for Australian Ordnance Council. Department of Defence. CP2-3-21. Campbell Park Offices, Canberra, ACT, 2600 AUSTRALIA 1. Downgrading/Delimiting Instructions 1. Officer/Position responsible for Security: PAOC Downgrading: PAOC Approval for release: PAOC Approval for release: PAOC Approval for release: PAOC Downgrading: PAOC Approval for release: PAOC	(Secret) C (Conf) R (Rest) U (Uno	:lass) Documen	t Title	Abstr	act			
Title PILLAR REPORT - ENVIRONMENTAL QUESTIONNAIRE FOR ARMAMENT STORES 1. Author(s) SQNLDR GREG WILCOCK 1. Downgrading/Delimiting Instructions 1. Officer/Position responsible for Australian Ordnance Council. Department of Defence. CP2-3-21. Campbell Park Offices, Canberra, ACT, 2600 AUSTRALIA Downgrading: PAOC Downgrading: PAOC Approval for release: PAOC Approval for release: PAOC Downgrading: PAOC Approval for release: PAOC Downgrading: PAOC Approval for release: PAOC Approval for release: PAOC No Limitation Casual Announcement No Limitation B. Casual Announcement (for citation in other documents) No Limitation Ref. by Author, Doc No. and date only No Limitation This report publishes a revised AOC Environmental Questionnaire.	For UNCLASSIFIED documents with	a secondary distri	bution LIMITATION	, use (L) in docur	nent box.			
PILLAR REPORT - ENVIRONMENTAL QUESTIONNAIRE FOR ARMAMENT STORES Author(s) SQNLDR GREG WILCOCK a. Corporate Author and Address Australian Ordnance Council. Department of Defence. CP2-3-21. Campbell Park Offices, Canberra, ACT, 2600 AUSTRALIA b. Task Sponsor PRESIDENT AUSTRALIAN ORDNANCE COUNCIL Secondary Release Statement of this Document Public Access a. Deliberate Announcement No Limitation b. Casual Announcement (for citation in other documents) No Limitation Ref. by Author, Doc No. and date only Keywords PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES Abstract This report publishes a revised AOC Environmental Questionnaire.	Document Date 24 July 1996		7. Number of Page	s	32	8. Numi	per of Refs.	1
Author(s) SQNLDR GREG WILCOCK a. Corporate Author and Address Australian Ordnance Council. Department of Defence. CP2-3-21. Campbell Park Offices, Canberra, ACT, 2600 AUSTRALIA b. Task Sponsor PRESIDENT AUSTRALIAN ORDNANCE COUNCIL Secondary Release Statement of this Document Public Access a. Deliberate Announcement No Limitation b. Casual Announcement (for citation in other documents) No Limitation Ref. by Author, Doc No. and date only Ne Limitation Ref. by Author, Doc No. and date only PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES Abstract This report publishes a revised AOC Environmental Questionnaire.	Title					-		!
SQNLDR GREG WILCOCK a. Corporate Author and Address Australian Ordnance Council, Department of Defence, CP2-3-21, Campbell Park Offices, Canberra, ACT, 2600 AUSTRALIA b. Task Sponsor PRESIDENT AUSTRALIAN ORDNANCE COUNCIL Secondary Release Statement of this Document Public Access a. Deliberate Announcement No Limitation b. Casual Announcement (for citation in other documents) V No Limitation Ref. by Author, Doc No. and date only No Keywords PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES Abstract This report publishes a revised AOC Environmental Questionnaire.	PILLAR REPORT - ENVIRONME	NTAL QUESTIO	NNAIRE FOR ARM	AMENT STORE	S			
a. Corporate Author and Address Australian Ordnance Council. Department of Defence. CP2-3-21. Campbell Park Offices, Canberra, ACT, 2600 AUSTRALIA b. Task Sponsor PRESIDENT AUSTRALIAN ORDNANCE COUNCIL Secondary Release Statement of this Document Public Access a. Deliberate Announcement No Limitation Ref. by Author, Doc No. and date only Keywords PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES Abstract This report publishes a revised AOC Environmental Questionnaire.	. Author(s)			11. Downgradi	ing/Delimiti	ng Instruc	ctions	
Australian Ordnance Council. Department of Defence. CP2-3-21. Campbell Park Offices. Canberra, ACT, 2600 AUSTRALIA b. Task Sponsor PRESIDENT AUSTRALIAN ORDNANCE COUNCIL Secondary Release Statement of this Document Public Access a. Deliberate Announcement No Limitation b. Casual Announcement (for citation in other documents) No Limitation Ref. by Author, Doc No. and date only Keywords PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES Abstract This report publishes a revised AOC Environmental Questionnaire.	SQNLDR GREG WILCOCK							
CP2-3-21. Campbell Park Offices, Canberra, ACT, 2600 AUSTRALIA Downgrading:	a. Corporate Author and Address			13. Officer/Pos	sition respon	sible for		
AUSTRALIA Downgrading: PAOC Approval for release: PAOC				Security: _		PAOC		
PRESIDENT AUSTRALIAN ORDNANCE COUNCIL Secondary Release Statement of this Document Public Access a. Deliberate Announcement No Limitation b. Casual Announcement (for citation in other documents) No Limitation Ref. by Author, Doc No. and date only Keywords PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES Abstract This report publishes a revised AOC Environmental Questionnaire.		Canberra, AC1, 20	500	Downgradi	ng:	PAOC		
PRESIDENT AUSTRALIAN ORDNANCE COUNCIL Secondary Release Statement of this Document Public Access a. Deliberate Announcement No Limitation b. Casual Announcement (for citation in other documents) No Limitation Ref. by Author, Doc No. and date only Keywords PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES Abstract This report publishes a revised AOC Environmental Questionnaire.	h Task Sponsor			Approval f	or release: _	PAOC		
. Secondary Release Statement of this Document Public Access a. Deliberate Announcement No Limitation b. Casual Announcement (for citation in other documents) No Limitation Ref. by Author, Doc No. and date only . Keywords PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES . Abstract This report publishes a revised AOC Environmental Questionnaire.		DNANCE COUNT	~11					
Public Access a. Deliberate Announcement No Limitation b. Casual Announcement (for citation in other documents) No Limitation Ref. by Author, Doc No. and date only Keywords PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES Abstract This report publishes a revised AOC Environmental Questionnaire.	FRESIDENT AUSTRALIAN OR	DNANCE COUNT	OIL					
A. Deliberate Announcement No Limitation b. Casual Announcement (for citation in other documents) No Limitation Ref. by Author, Doc No. and date only Keywords PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES Abstract This report publishes a revised AOC Environmental Questionnaire.	. Secondary Release Statement of t	his Document						
No Limitation b. Casual Announcement (for citation in other documents) No Limitation Ref. by Author, Doc No. and date only Keywords PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES Abstract This report publishes a revised AOC Environmental Questionnaire.	Public Access							
b. Casual Announcement (for citation in other documents) No Limitation Ref. by Author, Doc No. and date only Keywords PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES Abstract This report publishes a revised AOC Environmental Questionnaire.	a. Deliberate Announcement							
No Limitation Ref. by Author, Doc No. and date only Keywords PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES Abstract This report publishes a revised AOC Environmental Questionnaire.	No Limitation							
No Limitation Ref. by Author, Doc No. and date only . Keywords PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES . Abstract This report publishes a revised AOC Environmental Questionnaire.	b. Casual Announcement (for citat	ion in other docur	nents)		-			
PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES Abstract This report publishes a revised AOC Environmental Questionnaire.	,							
PILLAR REPORT, ENVIRONMENTAL, QUESTIONNAIRE, ARMAMENT STORES Abstract This report publishes a revised AOC Environmental Questionnaire.	No Limitation	F	Ref. by Author, Doc N	o. and date only				
This report publishes a revised AOC Environmental Questionnaire.								
This report publishes a revised AOC Environmental Questionnaire.	PILLAR REPORT, ENVIRONME	NTAL, QUESTIO	NNAIRE, ARMAME	NT STORES				
This report publishes a revised ACC Environmental Questionnaire.	. Abstract	** ************************************	***************************************	***************************************				
	This report publishes a revise	d AOC Environme	ntal Questionnaire.				•	